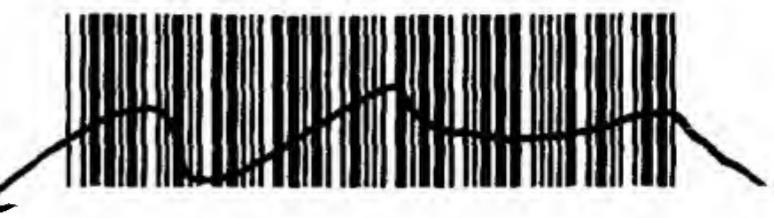


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#4



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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/084,139

DATE: 12/26/2002

TIME: 15:11:55

Input Set : A:\2002-12-06 1110-0307P.txt
 Output Set: N:\CRF4\12262002\J084139.raw

3 <110> APPLICANT: NAGATA, Shigekazu
 4 YATOMI, Takehiro
 5 SUDA, Takashi
 7 <120> TITLE OF INVENTION: PROPHYLACTIC/THERAPEUTIC AGENT
 9 <130> FILE REFERENCE: 1110-0307P
 11 <140> CURRENT APPLICATION NUMBER: 10/084,139
C--> 12 <141> CURRENT FILING DATE: 2002-12-09
 14 <160> NUMBER OF SEQ ID NOS: 12
 16 <170> SOFTWARE: PatentIn Ver. 2.0
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 381
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Mus sp.
 23 <220> FEATURE:
 24 <221> NAME/KEY: CDS
 25 <222> LOCATION: (1)..(381)
 27 <400> SEQUENCE: 1
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 29 Met Met Ser Ser Ala Gln Phe Leu Gly Leu Leu Leu Cys Phe Gln
 30 1 5 10 15
 32 ggt acc aga tgt gat atc cag atg aca cag act aca tcc tcc ctg tct 96
 33 Gly Thr Arg Cys Asp Ile Gln Met Thr Gln Thr Ser Ser Leu Ser
 34 20 25 30
 36 gcc tct ctg gga gac aga gtc acc atc agt tgc agg gcc agt cag gac 144
 37 Ala Ser Leu Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp
 38 35 40 45
 40 att agc aat tat tta aac tgg tat cag cag aaa cca gat gga act gtt 192
 41 Ile Ser Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val
 42 50 55 60
 44 aaa ctc ctg atc tac tac aca tca aga tta cac tca gga gtc cca tca 240
 45 Lys Leu Ile Tyr Tyr Ser Arg Leu His Ser Gly Val Pro Ser
 46 65 70 75 80
 48 agg ttc agt ggc agt ggg tct ggg aca aat tat tct ctc acc att agc 288
 49 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asn Tyr Ser Leu Thr Ile Ser
 50 85 90 95
 52 aac ctg gaa caa gga gat att gcc act tac ttt tgc caa cag ggt agt 336
 53 Asn Leu Glu Gln Gly Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Ser
 54 100 105 110
 56 acg ctt ccg tgg acg ttc ggt gga ggc acc aag ctg gaa atc aaa 381
 57 Thr Leu Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 58 115 120 125
 61 <210> SEQ ID NO: 2
 62 <211> LENGTH: 127

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/084,139

DATE: 12/26/2002
TIME: 15:11:55

Input Set : A:\2002-12-06 1110-0307P.txt
Output Set: N:\CRF4\12262002\J084139.raw

63 <212> TYPE: PRT
 64 <213> ORGANISM: Mus sp.
 66 <400> SEQUENCE: 2
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 68 1 5 10 15
 70 Gly Thr Arg Cys Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser
 71 20 25 30
 73 Ala Ser Leu Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp
 74 35 40 45
 76 Ile Ser Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val
 77 50 55 60
 79 Lys Leu Leu Ile Tyr Tyr Thr Ser Arg Leu His Ser Gly Val Pro Ser
 80 65 70 75 80
 82 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asn Tyr Ser Leu Thr Ile Ser
 83 85 90 95
 85 Asn Leu Glu Gln Gly Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Ser
 86 100 105 110
 88 Thr Leu Pro Trp Thr Phe Gly Gly Thr Lys Leu Glu Ile Lys
 89 115 120 125
 92 <210> SEQ ID NO: 3
 93 <211> LENGTH: 408
 94 <212> TYPE: DNA
 95 <213> ORGANISM: Mus sp.
 97 <220> FEATURE:
 98 <221> NAME/KEY: CDS
 99 <222> LOCATION: (1)..(408)
 101 <400> SEQUENCE: 3
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 103 Met Asp Trp Val Trp Thr Leu Leu Phe Leu Ile Ala Ala Ala Gln Ser
 104 1 5 10 15
 106 gcc caa gca cag atc cag ttg gtg cag tct gga cct gag ctg aag aag 96
 107 Ala Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys
 108 20 25 30
 110 cct gga gag aca gtc aag atc tcc tgc aag gct tct ggg tat acc ttc 144
 111 Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe
 112 35 40 45
 114 aca gaa tat cca atg cac tgg gtg aag cag gct cca gga aag ggt ttc 192
 115 Thr Glu Tyr Pro Met His Trp Val Lys Gln Ala Pro Gly Lys Gly Phe
 116 50 55 60
 118 aag tgg atg ggc atg ata tac acc gac act gga gag cca tca tat gct 240
 119 Lys Trp Met Gly Met Ile Tyr Thr Asp Thr Gly Glu Pro Ser Tyr Ala
 120 65 70 75 80
 122 gaa gag ttc aag ggg cgg ttt gcc ttc tct ttg gag acc tct gcc agc 288
 123 Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser
 124 85 90 95
 126 act gcc tat ttg cag atc aac ttc ctc aaa aat gag gac acg gct aca 336
 127 Thr Ala Tyr Leu Gln Ile Asn Phe Leu Lys Asn Glu Asp Thr Ala Thr
 128 100 105 110
 130 tat ttc tgt gta aga ttt tac tgg gat tac ttt gac tac tgg ggc caa 384

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/084,139

DATE: 12/26/2002
 TIME: 15:11:55

Input Set : A:\2002-12-06 1110-0307P.txt
 Output Set: N:\CRF4\12262002\J084139.raw

131	Tyr	Phe	Cys	Val	Arg	Phe	Tyr	Trp	Asp	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	
132		115						120						125			
134	ggc	acc	act	ctc	aca	gtc	tcc	tca									408
135	Gly	Thr	Thr	Leu	Thr	Val	Ser	Ser									
136		130				135											
139	<210>	SEQ	ID	NO:	4												
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141	<212>	TYPE:	PRT														
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144	<400>	SEQUENCE:	4														
145	Met	Asp	Trp	Val	Trp	Thr	Leu	Leu	Phe	Leu	Ile	Ala	Ala	Gln	Ser		
146	1		5					10						15			
148	Ala	Gln	Ala	Gln	Ile	Gln	Leu	Val	Gln	Ser	Gly	Pro	Glu	Leu	Lys	Lys	
149			20					25						30			
151	Pro	Gly	Glu	Thr	Val	Lys	Ile	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	
152		35					40						45				
154	Thr	Glu	Tyr	Pro	Met	His	Trp	Val	Lys	Gln	Ala	Pro	Gly	Lys	Gly	Phe	
155		50					55						60				
157	Lys	Trp	Met	Gly	Met	Ile	Tyr	Thr	Asp	Thr	Gly	Glu	Pro	Ser	Tyr	Ala	
158		65				70			75					80			
160	Glu	Glu	Phe	Lys	Gly	Arg	Phe	Ala	Phe	Ser	Leu	Glu	Thr	Ser	Ala	Ser	
161			85					90						95			
163	Thr	Ala	Tyr	Leu	Gln	Ile	Asn	Phe	Leu	Lys	Asn	Glu	Asp	Thr	Ala	Thr	
164			100					105					110				
166	Tyr	Phe	Cys	Val	Arg	Phe	Tyr	Trp	Asp	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	
167		115						120					125				
169	Gly	Thr	Thr	Leu	Thr	Val	Ser	Ser									
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174	<211>	LENGTH:	381														
175	<212>	TYPE:	DNA														
176	<213>	ORGANISM:	Homo	sapiens													
178	<220>	FEATURE:															
179	<221>	NAME/KEY:	CDS														
180	<222>	LOCATION:	(1)..(381)														
182	<400>	SEQUENCE:	5														
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184	Met	Glu	Thr	Asp	Thr	Leu	Leu	Leu	Trp	Val	Leu	Leu	Leu	Trp	Val	Pro	
185	1		5					10						15			
187	gga	tca	acc	gga	gat	att	cag	atg	acc	cag	agt	ccg	tgc	acc	ctc	tct	96
188	Gly	Ser	Thr	Gly	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Thr	Leu	Ser	
189			20					25						30			
191	gct	agc	gtc	ggg	gat	agg	gtc	acc	ata	act	tgc	agg	gca	agt	cag	gac	144
192	Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Asp	
193			35					40						45			
195	att	tcg	aat	tat	tta	aac	tgg	tat	cag	cag	aag	cca	ggc	aaa	gct	ccc	192
196	Ile	Ser	Asn	Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	
197			50					55						60			
199	aag	ctt	cta	att	tat	tac	aca	tca	aga	tta	cac	tca	ggg	gta	cct	tca	240

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/084,139

DATE: 12/26/2002
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Input Set : A:\2002-12-06 1110-0307P.txt
Output Set: N:\CRF4\12262002\J084139.raw

200 Lys Leu Leu Ile Tyr Tyr Thr Ser Arg Leu His Ser Gly Val Pro Ser
201 65 70 75 80
203 cgc ttc agt ggc agt gga tct ggg acc aat tat acc ctc aca atc tcg 288
204 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asn Tyr Thr Leu Thr Ile Ser
205 85 90 95
207 agt ctg cag cca gat gat ttc gcc act tat ttt tgc caa cag ggt agt 336
208 Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Phe Cys Gln Gln Gly Ser
209 100 105 110
211 acg ctt ccg tgg acg ttc ggt cag ggg acc aag gtg gag gtc aaa 381
212 Thr Leu Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Val Lys
213 115 120 125
216 <210> SEQ ID NO: 6
217 <211> LENGTH: 127
218 <212> TYPE: PRT
219 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 6
222 Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
223 1 5 10 15
225 Gly Ser Thr Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser
226 20 25 30
228 Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp
229 35 40 45
231 Ile Ser Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
232 50 55 60
234 Lys Leu Ile Tyr Tyr Thr Ser Arg Leu His Ser Gly Val Pro Ser
235 65 70 75 80
237 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asn Tyr Thr Leu Thr Ile Ser
238 85 90 95
240 Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Phe Cys Gln Gln Gly Ser
241 100 105 110
243 Thr Leu Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Val Lys
244 115 120 125
247 <210> SEQ ID NO: 7
248 <211> LENGTH: 408
249 <212> TYPE: DNA
250 <213> ORGANISM: Homo sapiens
252 <220> FEATURE:
253 <221> NAME/KEY: CDS
254 <222> LOCATION: (1)..(408)
256 <400> SEQUENCE: 7
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258 Met Asp Trp Val Trp Thr Leu Leu Phe Leu Ile Ala Ala Gln Ser
259 1 5 10 15
261 gcc caa gca cag gtc cag ttg gtg cag tct gga gct gag gtg aag aag 96
262 Ala Gln Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
263 20 25 30
265 cct gga agc tca gtc aag gtg tcc tgc aaa gct tct ggg tat acc ttc 144
266 Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe
267 35 40 45

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/084,139

DATE: 12/26/2002

TIME: 15:11:55

Input Set : A:\2002-12-06 1110-0307P.txt

Output Set: N:\CRF4\12262002\J084139.raw

269 aca gaa tat cca atg cac tgg gtg aga cag gct cca gga cag ggt ttc 192
 270 Thr Glu Tyr Pro Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Phe
 271 50 55 60
 273 aag tgg atg ggc atg ata tac acc gac act gga gag cca tca tat gct 240
 274 Lys Trp Met Gly Met Ile Tyr Thr Asp Thr Gly Glu Pro Ser Tyr Ala
 275 65 70 75 80
 277 gaa gag ttc aag gga cggtt aca ttc act ttg gac acc tct acc aac 288
 278 Glu Glu Phe Lys Gly Arg Phe Thr Phe Thr Leu Asp Thr Ser Thr Asn
 279 85 90 95
 281 act gcc tat atg gag ctc agc tct ctc agg tct gag gac acg gct gtc 336
 282 Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
 283 100 105 110
 285 tat tac tgt gta aga ttt tac tgg gat tac ttt gac tac ttgg ggt caa 384
 286 Tyr Tyr Cys Val Arg Phe Tyr Trp Asp Tyr Phe Asp Tyr Trp Gly Gln
 287 115 120 125
 289 ggt acc ctg gtc aca gtc tcc tca 408
 290 Gly Thr Leu Val Thr Val Ser Ser
 291 130 135
 294 <210> SEQ ID NO: 8
 295 <211> LENGTH: 136
 296 <212> TYPE: PRT
 297 <213> ORGANISM: Homo sapiens
 299 <400> SEQUENCE: 8
 300 Met Asp Trp Val Trp Thr Leu Leu Phe Leu Ile Ala Ala Ala Gln Ser
 301 1 5 10 15
 303 Ala Gln Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
 304 20 25 30
 306 Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe
 307 35 40 45
 309 Thr Glu Tyr Pro Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Phe
 310 50 55 60
 312 Lys Trp Met Gly Met Ile Tyr Thr Asp Thr Gly Glu Pro Ser Tyr Ala
 313 65 70 75 80
 315 Glu Glu Phe Lys Gly Arg Phe Thr Phe Thr Leu Asp Thr Ser Thr Asn
 316 85 90 95
 318 Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
 319 100 105 110
 321 Tyr Tyr Cys Val Arg Phe Tyr Trp Asp Tyr Phe Asp Tyr Trp Gly Gln
 322 115 120 125
 324 Gly Thr Leu Val Thr Val Ser Ser
 325 130 135
 328 <210> SEQ ID NO: 9
 329 <211> LENGTH: 1182
 330 <212> TYPE: DNA
 331 <213> ORGANISM: Homo sapiens
 333 <220> FEATURE:
 334 <221> NAME/KEY: CDS
 335 <222> LOCATION: (36)..(1169)
 337 <400> SEQUENCE: 9

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/084,139

DATE: 12/26/2002

TIME: 15:11:56

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